CHAPTER 1. OPERATION MANUAL

[1] SPECIFICATIONS (LC-42/46/52XL2E/S/RU)

Item			42″ LCD COLOUR TV, Model: LC-42XL2E, LC-42XL2S	46″ LCD COLOUR TV, Model: LC-46XL2E, LC-46XL2S	52″ LCD COLOUR TV, Model: LC-52XL2E, LC-52XL2S
LCD panel			42″ Advanced Super View & BLACK TFT LCD	46″ Advanced Super View & BLACK TFT LCD	52″ Advanced Super View & BLACK TFT LCD
Number of dots			6,220,800 dots (1920 × 1080 × 3 dots)		
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L/L')		
		Digital	DVB-T (2K/8K OFDM)		
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch (Digital: E5-E69ch)		
		CATV	Hyper-band, S1–S41ch		
	TV-Tuning System		Auto Preset 999 ch, Auto Label, Auto Sort		
	STEREO/BILINGUAL		NICAM/A2		
Brightness			450 cd/m^2		
Viewing angles			H : 176° V : 176°		
Audio amplifier			15W × 2		
Speaker			(100 mm × 40 mm) × 4		
Terminals	Antenna		UHF/VHF 75 Ω Din type (Analogue & Digital)		
	RS-232C		D-Sub 9 pin male connector		
	EXT 1		SCART (AV input, Y/C input, RGB input, TV output)		
	EXT 2		SCART (AV input/monitor output, Y/C input, AV Link, RGB input)		
	EXT 3		S-VIDEO (Y/C input), RCA pin (AV input)		
	EXT 4		HDMI		
	EXT 5		HDMI		
	EXT 6		HDMI, Ø 3.5 mm jack		
	EXT 7		15 pin mini D-sub, Ø 3.5 mm jack		
	EXT 8		COMPONENT IN: Y/Pb(Cb)/Pr(Cr), RCA pin (L/R)		
	DIGITAL AUDIO OUTPUT		Optical SPDIF Digital audio output		
	C. I. (Common Interface)		EN50221, R206001		
	OUTPUT		RCA pin (Audio)		
	Headphones		Ø 3.5mm jack (Audio output)		
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish		
Power Requirement			AC 220–240 V, 50 Hz		
Power Consumption			222W (0.5 W Standby) (Method IEC60107)	253W (0.5 W Standby) (Method IEC60107)	280W (0.5 W Standby) (Method IEC60107)
Weight			22.5 kg (Without stand), 27.0 kg (With stand)	25.5 kg (Without stand), 30.5 kg (With stand)	29.0 kg (Without stand), 34.0 kg (With stand)
Operating temperature			0°C to +40°C		

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Optional accessory

The listed optional accessories are available for the LCD colour TVs. Please purchase them at your nearest shop.

- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability

No.	Part name	Part number
1	Wall mount bracket	AN-52AG4

[2] SPECIFICATIONS (LC-46/52X20E/S/RU)

Item			46″ LCD COLOUR TV, Model: LC-46X20E, LC-46X20S	52″ LCD COLOUR TV, Model: LC-52X20E, LC-52X20S	
LCD panel			46″ Advanced Super View & BLACK TFT LCD	52″ Advanced Super View & BLACK TFT LCD	
Number of dots			6,220,800 dots (1920 × 1080 × 3 dots)		
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L/L')		
		Digital	DVB-T (2K/8K OFDM)		
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch (Digital: E5-E69ch)		
		CATV	Hyper-band, S1–S41ch		
	TV-Tuning System		Auto Preset 999 ch, Auto Label, Auto Sort		
	STEREO/BILINGUAL		NICAM/A2		
Brightness			450 cd/m^2		
Viewing angles			H : 176° V : 176°		
Audio amplifier			15W × 2		
Speaker			(100 mm × 40 mm) × 4		
Terminals	Antenna		UHF/VHF 75 Ω Din type (Analogue & Digital)		
	RS-232C		D-Sub 9 pin male connector		
	EXT 1		SCART (AV input, Y/C input, RGB input, TV output)		
	EXT 2		SCART (AV input/monitor output, Y/C input, AV Link, RGB input)		
	EXT 3		S-VIDEO (Y/C input), RCA pin (AV input)		
	EXT 4		HDMI		
	EXT 5		HDMI		
	EXT 6		HDMI, Ø 3.5 mm jack		
	EXT 7		15 pin mini D-sub, Ø 3.5 mm jack		
	EXT 8		COMPONENT IN: Y/Pb(Cb)/Pr(Cr), RCA pin (L/R)		
	DIGITAL AUDIO OUTPUT		Optical SPDIF Digital audio output		
	C. I. (Common Interface)		EN50221, R206001		
	OUTPUT		RCA pin (Audio)		
	Headphones		Ø 3.5mm jack (Audio output)		
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish		
Power Requirement			AC 220–240 V, 50 Hz		
Power Consumption			245W (0.5 W Standby) (Method IEC60107)	270W (0.5 W Standby) (Method IEC60107)	
Weight			25.0 kg (Without stand), 30.0 kg (With stand)	28.5 kg (Without stand), 33.5 kg (With stand)	
Operating temperature			0°C to +40°C		

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Optional accessory

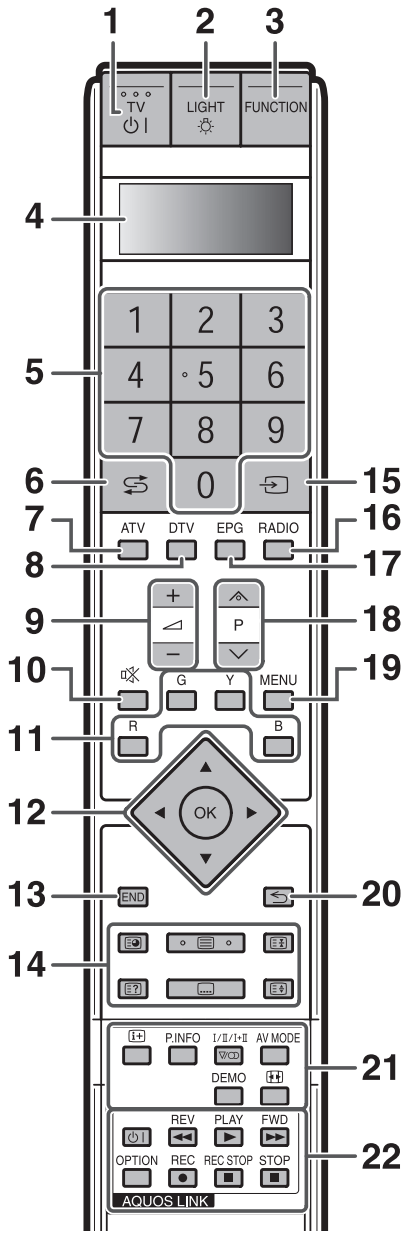
The listed optional accessories are available for the LCD colour TVs. Please purchase them at your nearest shop.

- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	Wall mount bracket	AN-52AG4

[3] OPERATION MANUAL (LC-42/46/52XL2E/S/RU)

NOTE
- The symbols DVD, STB and VCR indicate that the buttons become available in respective operating mode when using as a universal remote control.



1 **TV ⏻ | (TV Standby/On)**

2 **LIGHT** DVD STB VCR
When pressed, buttons that are frequently used (**P** ∧/∨, +/−, **0 - 9** numeric buttons, ⇆ and ⏎) will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in low-light situations.

3 **FUNCTION** DVD STB VCR
Press this button briefly (for more than 0.2 second), and the remote control switches for DVD, SetTopBox or VCR operation and currently controlled devices will be indicated in the LCD window.

4 **LCD window** DVD STB VCR
This screen shows which device you are currently controlling. (TV, DVD, STB or VCR).

5 **0 - 9 numeric buttons** STB
Set the channel.
Enter desired numbers.
Set the page in teletext mode.

6 ⇆ **(Flashback)**
Press to return to the previous image in normal viewing mode.

7 **ATV**
Press to access conventional analogue TV mode.

8 **DTV**
Press to access DTV mode.

9 **(+/−) (Volume)**
Increase/decrease TV volume.

10 **(Mute)**
TV sound on/off

11 **R/G/Y/B (Colour) buttons**
On the menu screen, the coloured buttons are correspondingly used to select the coloured items on the screen. (e.g. EPG, MHEG-5, TELETEXT)

12 **▲/▼/◀/▶ (Cursor)** DVD
Select a desired item on the setting screen.

OK DVD STB
ATV/DTV/DVD/STB: Execute a command within the menu screen.
TV/DTV: Display the programme list when no other menu screen is running.

13 **END**
Exit the menu screen.

14 **Buttons for useful operations**

(Subpage)

(Teletext)
ATV: Display analogue teletext.
DTV: Select MHEG-5 and teletext for DTV.

(Freeze/Hold)

(Reveal hidden Teletext)

(Subtitle)
ATV/DTV/External: Switch subtitle languages on/off.

(Top/Bottom/Full)
Set the area of magnification in teletext mode.

15 **(External sources)**
Select an external source. (TV, EXT1, EXT2, EXT3, EXT4, EXT5, EXT6, EXT7, EXT8)

16 **RADIO**
DTV: Press to access Radio mode.

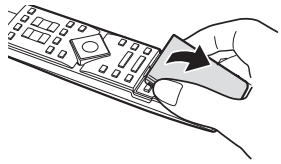
17 **EPG**
DTV: Display the EPG screen.

18 **P (∧/∨)** DVD STB VCR
Select the TV channel.
In analogue TV mode, external sources can also be selected.

19 **MENU** DVD
ATV/DTV: Menu screen on/off.
DVD: Title menu on/off.

20 ⮌ **(Return)**
Return to the previous menu screen.

21 **Buttons for other useful features**
Flip open the remote control cover on the front.



(Display information)
Press to display the station information (channel number, signal, etc.) in the upper right corner of the screen.

P. INFO
Press to display programme information which is transmitted though digital video broadcasting in the upper left corner of the screen. (DTV only)

(Sound mode)
Select the sound multiplex mode.

AV MODE
Select a video setting.

DEMO
Demonstrate the 100 Hz effects in a dual screen format.

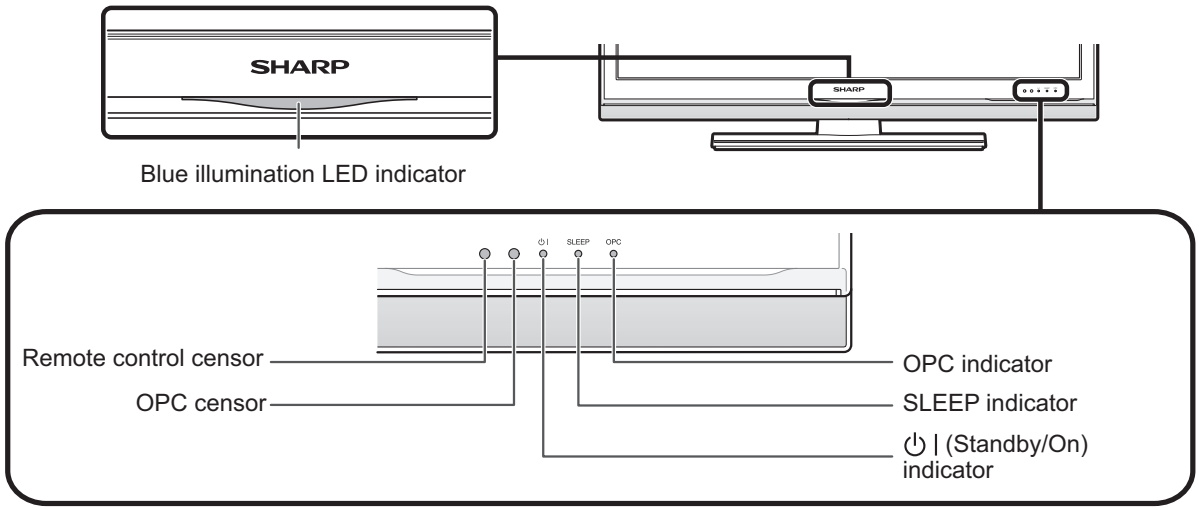
(WIDE MODE)
Select the wide mode.

22 **AQUOS LINK buttons** DVD STB VCR
TV mode: If external equipment such as a AQUOS BD Player is connected via HDMI cables and is AQUOS LINK compatible, you can use these AQUOS LINK buttons.

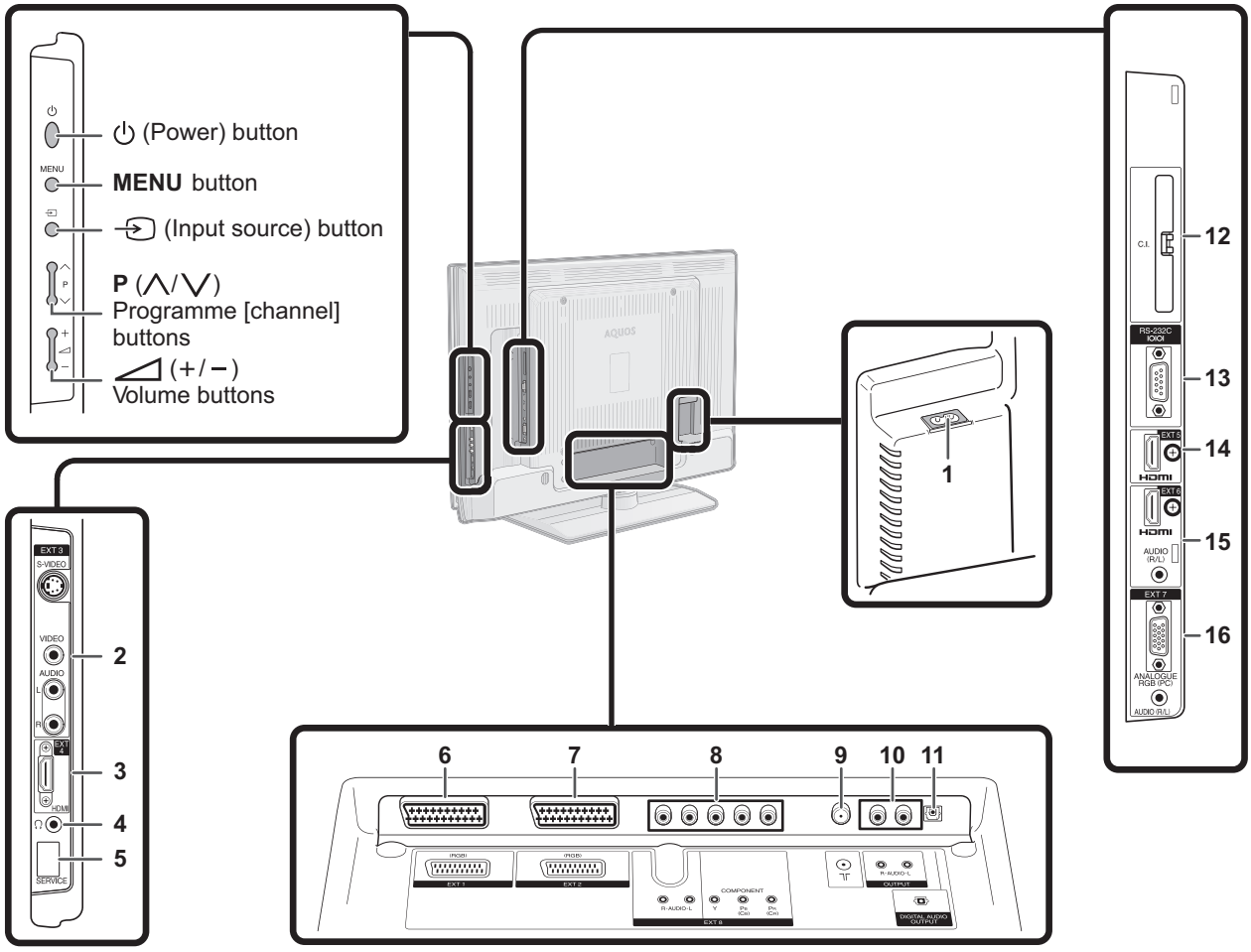
DVD/VCR mode: Press **OPTION** to pause the picture.
- The buttons except **OPTION** are correspondingly used to select the items on the screen.

STB mode: Only ⏻ | button can be used to operate on STB.

TV (Front view)



TV (Rear view)



1 AC INPUT terminal
2 EXT 3 terminals
3 EXT 4 (HDMI) terminal
4 Headphones
5 SERVICE socket
6 EXT 1 (RGB) terminal
7 EXT 2 (RGB) terminal
8 EXT 8 (COMPONENT/AUDIO) terminals
9 Antenna terminal
10 OUTPUT (AUDIO) terminals
11 DIGITAL AUDIO OUTPUT terminal
12 COMMON INTERFACE slot
* Remove the cover when inserting the CI Module.
13 RS-232C terminal
14 EXT 5 (HDMI) terminal
15 EXT 6 (HDMI/AUDIO) terminals
16 EXT 7 (ANALOGUE RGB/AUDIO) terminals

Preparation

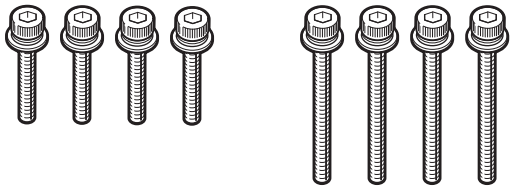
Attaching the stand unit

- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

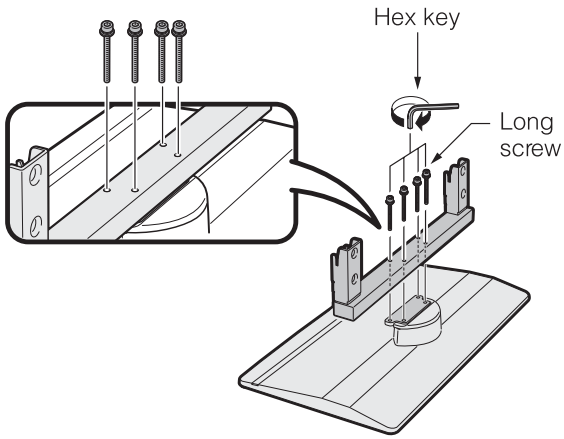
CAUTION

- **Attach the stand in the correct direction.**
- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

1 Confirm that there are 8 screws (4 short screws and 4 long screws) with the stand unit.

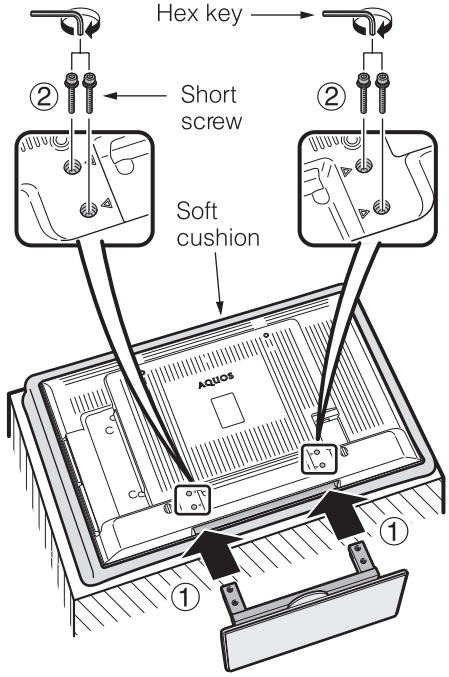


2 Attach the supporting post for the stand unit onto the base using the 4 long screws with the hex key (supplied) as shown.



3 ① Insert the stand into the openings on the bottom of the TV. (Hold the stand so it will not drop from the edge of the base area.)

② Insert and tighten the 4 short screws into the 4 holes on the rear of the TV.



NOTE

- To detach the speaker unit, perform the steps in reverse order.

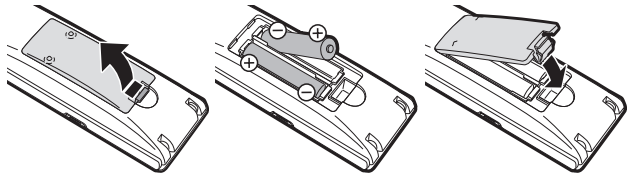
Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new “AAA” size batteries.

1 Open the battery cover.

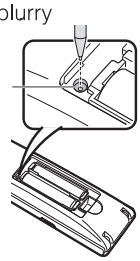
2 Insert two supplied “AAA” alkaline size batteries.
- Place batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

3 Close the battery cover.



CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- When replacing the batteries, use alkaline batteries instead of manganese ones.
- Do not overuse the light-up function of the **LIGHT** button, doing so may shorten the battery life. Replace the batteries when the light on the LCD window or the light-up function becomes weak or when the window becomes blurry
- Do not continue to use the remote control unit with the batteries running low. This may result in error message or malfunction. Should this happen replace the batteries and leave it unused for a while. Otherwise, you may open the rear battery cover and press the **RESET** button. When you press the **RESET** button, your Universal remote control settings will be deleted.
- The remote control unit has a internal memory of external devices. In order not to lose the data, replace the batteries quickly. If the manufacturer code is initialised and lost, you can input the manufacturer code again.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

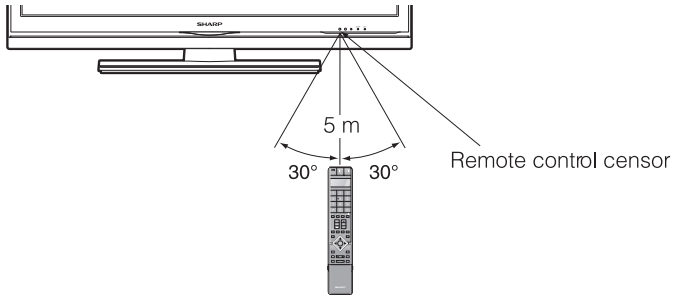


Note on disposing batteries:

The batteries provided contain no harmful materials such as cadmium, lead or mercury.
Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

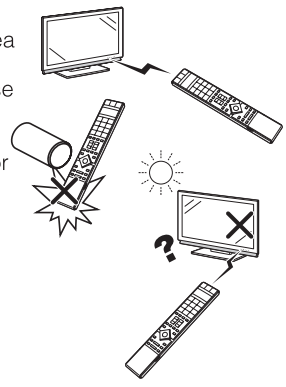
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.



Cautions regarding the remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Check if you pressed **TV** ⏻ | on the remote control unit. If the indicator on the TV lights upεd, press **TV** ⏻ |. • Is the AC cord disconnected? • Check if you pressed ⏻ on the TV.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Is the **FUNCTION** button set correctly? Set it to the TV setting position. • Are batteries inserted with polarity (+, −) aligned? • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated onto the remote control sensor?
• Picture is cut off.	• Is the image position correct? • Are screen mode adjustments (WIDE MODE) such as picture size made correctly?
• Strange colour, light colour or dark, or colour misalignment.	• Adjust the pictue tone. • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting.
• Power is suddenly tuned off.	• The unit's internal temperature has increased. Remove any objects blocking the vent or clean. • Is the sleep timer set? Select "Off" from the "Sleep Timer" menu. • Is "No signal off" activated?
• No picture.	• Are connections to external equipment correct? • Is the input signal type selected correctly after connection? • Is the correct input source selected? • Is a non-compatible signal being input? • Is the picture adjustment correct? • Is the antenna connected properly? • Is "On" selected in "Audio Only"?
• No sound.	• Is the volume too low? • Make sure that headphones are not connected. • Check if you pressed 🔇 on the remote control unit.
• The TV sometimes makes a cracking sound.	• This is not a malfunction. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the TV's performance.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: +5°C to +35°C.

IMPORTANT NOTE ON RESETTING THE PIN

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.

[4] OPERATION MANUAL (LC-46/52X20E/S/RU)

Remote control unit

1 ⏻ | **(Standby/On)**

2 **Buttons for useful operations**
(Teletext)
ATV: Display analogue teletext.
DTV: Select MHEG-5 and teletext for DTV.

(Reveal hidden Teletext)

(Subtitle)
ATV/DTV/External: Switch subtitle languages on/off.

(Top/Bottom/Full)
Set the area of magnification in teletext mode.

(Subpage)

(Freeze/Hold)
Press to freeze a moving image on the screen.

3 **0 - 9 numeric buttons**
Set the channel.
Enter desired numbers.
Set the page in teletext mode.

4 **(Flashback)**
Press to return to the previous image in normal viewing mode.

5 **DTV**
Press to access DTV mode.

6 **ATV**
Press to access conventional analogue TV mode.

7 **(Sound mode)**
Select the sound multiplex mode.

8 **(+/−) (Volume)**
Increase/decrease TV volume.

9 **(Mute)**
TV sound on/off

10 **(WIDE MODE)**
Select the wide mode.

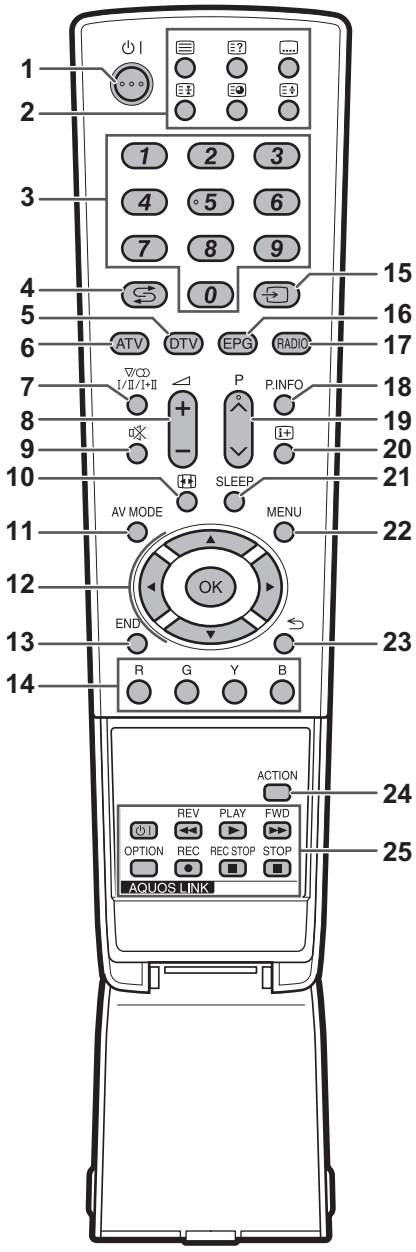
11 **AV MODE**
Select a video setting.

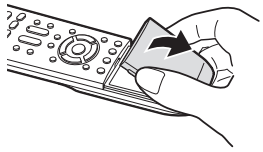
12 **▲/▼/◀/▶ (Cursor)**
Select a desired item on the setting screen.

OK
ATV/DTV/DVD/STB: Execute a command within the menu screen.
ATV/DTV: Display the programme list when no other menu screen is running.

13 **END**
Exit the menu screen.

14 **R/G/Y/B (Colour) buttons**
On the menu screen, the coloured buttons are correspondingly used to select the coloured items on the screen. (e.g. EPG, MHEG-5, TELETEXT)





15 **(INPUT SOURCE)**
Select an input source. (TV, EXT1, EXT2, EXT3, EXT4, EXT5, EXT6, EXT7, EXT8)

16 **EPG**
DTV: Display the EPG screen.

17 **RADIO**
DTV: Switch between Radio and Data mode.

18 **P. INFO**
Press to display programme information which is transmitted through digital video broadcasting in the upper left corner of the screen. (DTV only)

19 **P (∧/∨)**
Select the TV channel.
In analogue TV mode, external sources can also be selected.

20 **(Display information)**
Press to display the station information (channel number, signal, etc.) in the upper right corner of the screen.

21 **SLEEP**
Press to schedule a time for the TV to automatically standby.

22 **MENU**
ATV/DTV: Menu screen on/off.
DVD: Title menu on/off.

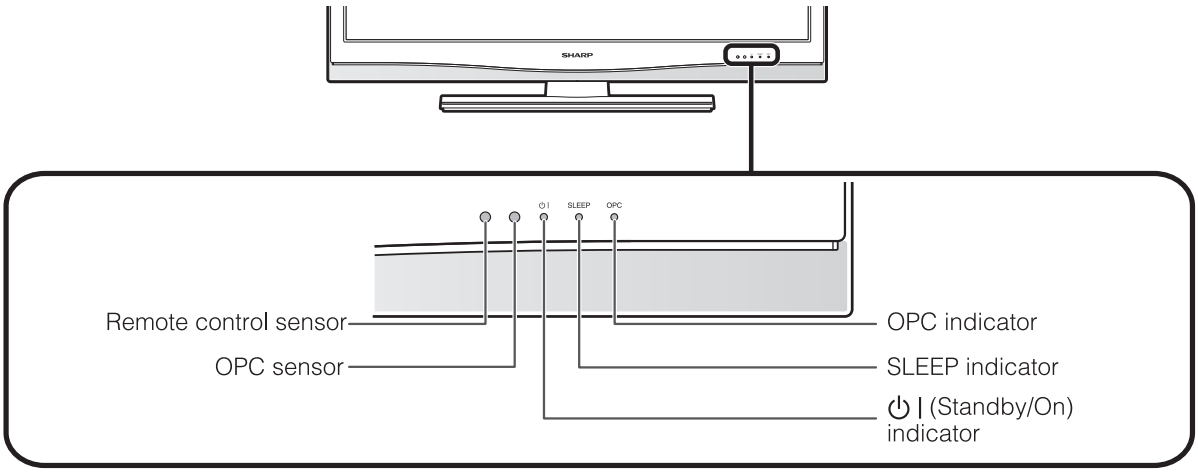
23 **(Return)**
Return to the previous menu screen.

24 **ACTION (Action Mode)**
Action Mode on/off.

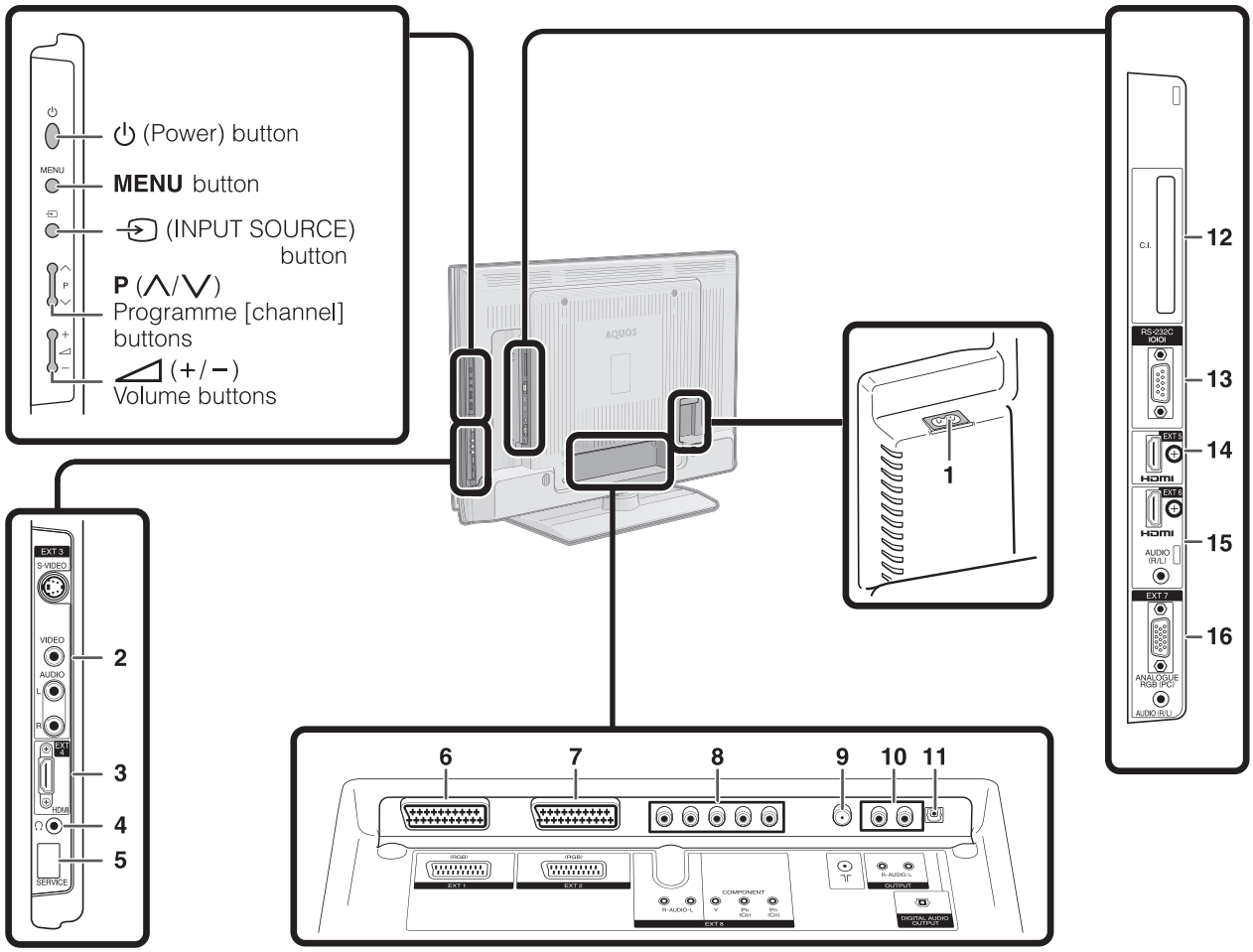
25 **AQUOS LINK buttons**
TV mode: If external equipment such as a AQUOS BD Player is connected via HDMI cables and is AQUOS LINK compatible, you can use these AQUOS LINK buttons.

DVD/VCR mode: Press **OPTION** to pause the picture.
• The buttons except **OPTION** are correspondingly used to select the items on the screen.
STB mode: Only the ⏻ | button can be used to operate on STB.

TV (Front view)



TV (Rear view)



1 AC INPUT terminal
2 EXT 3 terminals
3 EXT 4 (HDMI) terminal
4 Headphones
5 SERVICE socket
6 EXT 1 (RGB) terminal
7 EXT 2 (RGB) terminal
8 EXT 8 (COMPONENT/AUDIO) terminals
9 Antenna terminal
10 OUTPUT (AUDIO) terminals
11 DIGITAL AUDIO OUTPUT terminal
12 COMMON INTERFACE slot
13 RS-232C terminal
14 EXT 5 (HDMI) terminal
15 EXT 6 (HDMI/AUDIO) terminals
16 EXT 7 (ANALOGUE RGB/AUDIO) terminals

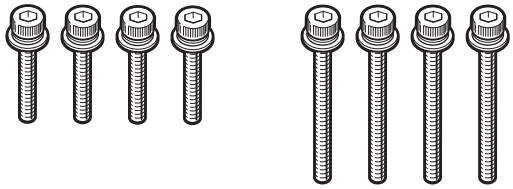
Preparation

Attaching the stand unit

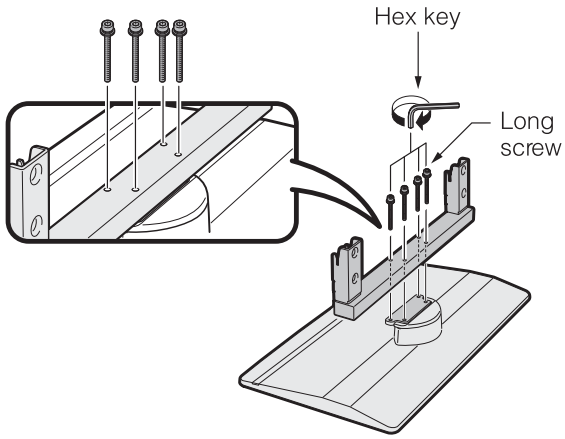
- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

CAUTION
- **Attach the stand in the correct direction.**
- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

1 Confirm that there are 8 screws (4 short screws and 4 long screws) with the stand unit.

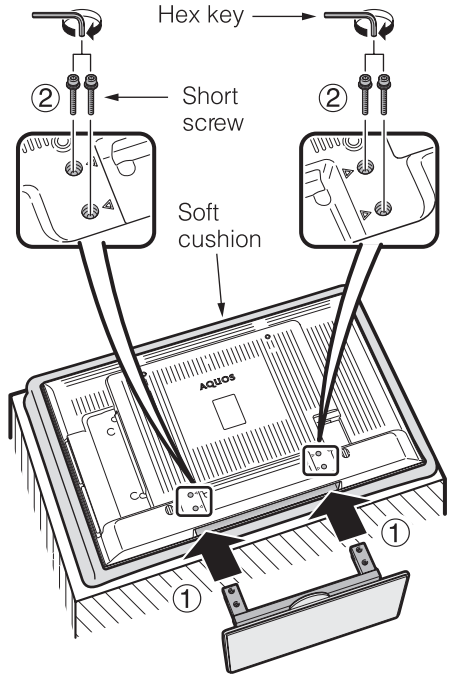


2 Attach the supporting post for the stand unit onto the base using the 4 long screws with the hex key (supplied) as shown.



3 ① Insert the stand into the openings on the bottom of the TV. (Hold the stand so it will not drop from the edge of the base area.)

② Insert and tighten the 4 short screws into the 4 holes on the rear of the TV.



NOTE
- To detach the stand unit, perform the steps in reverse order.

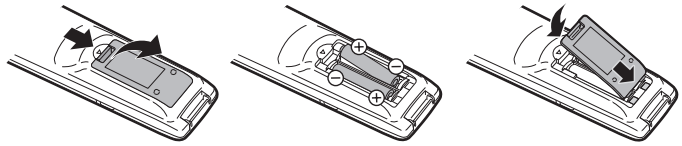
Preparation

Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new “AAA” size batteries.

1 Open the battery cover.

2 Insert two supplied “AAA” alkaline size batteries.
- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.



3 Close the battery cover.

CAUTION

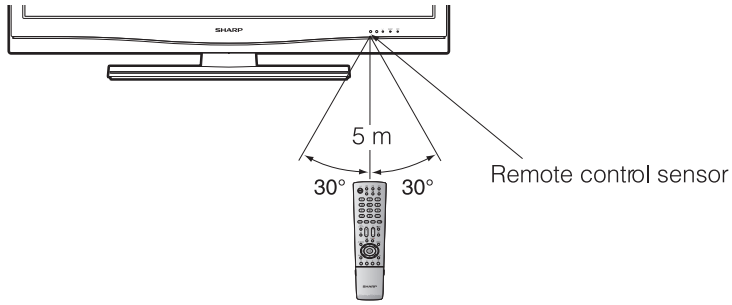
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- When replacing the batteries, use alkaline batteries instead of manganese ones.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

Note on disposing batteries:

The batteries provided contain no harmful materials such as cadmium, lead or mercury.
Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

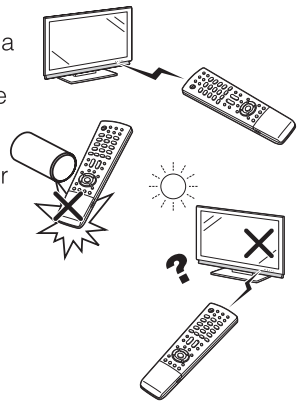
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.



Cautions regarding the remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or stong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Check if you pressed ⏻	on the remote control unit. If the indicator on the TV lights up red, press ⏻ |. • Is the AC cord disconnected? • Check if you pressed ⏻ on the TV.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated onto the remote control sensor?
• Picture is cut off.	• Is the image position correct? • Are screen mode adjustments (WIDE MODE) such as picture size made correctly?
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture tone. • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting.
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking the vent or clean. • Is the sleep timer set? Select "Off" from the "Sleep Timer" menu. • Is "No signal off" activated?
• No picture.	• Are connections to external equipment correct? • Is the input signal type selected correctly after connection? • Is the correct input source selected? • Is a non-compatible signal being input? • Is the picture adjustment correct? • Is the antenna connected properly? • Is "On" selected in "Audio Only"?
• No sound.	• Is the volume too low? • Make sure that headphones are not connected. • Check if you pressed 🔇 on the remote control unit.
• The TV sometimes makes a cracking sound.	• This is not a malfunction. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the TV's performance.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Storage temperature: +5°C to +35°C.

Information on the software license for this product

Software composition

The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

Software developed by SHARP and open source software

The copyrights for the software components and various relevant documents included with this product that were developed or written by SHARP are owned by SHARP and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties. These include software components covered by a GNU General Public License (hereafter GPL), a GNU Lesser General Public License (hereafter LGPL) or other license agreement.

Obtaining source code

Some of the open source software licensors require the distributor to provide the source code with the executable software components. GPL and LGPL include similar requirements. For information on obtaining the source code for the open source software and for obtaining the GPL, LGPL, and other license agreement information, visit the following website:

http://www.sharp-eu.com/gpl/

We are unable to answer any questions about the source code for the open source software. The source code for the software components whose copyrights are held by SHARP is not distributed.

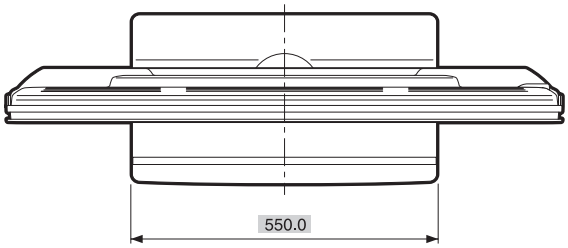
Acknowledgements

The following open source software components are included in this product:

• linux kernel • busybox • uClibc • zlib • libpng • libjpeg

[5] DIMENSIONS (LC-42/46/52XL2E/S/RU)

Unit: mm

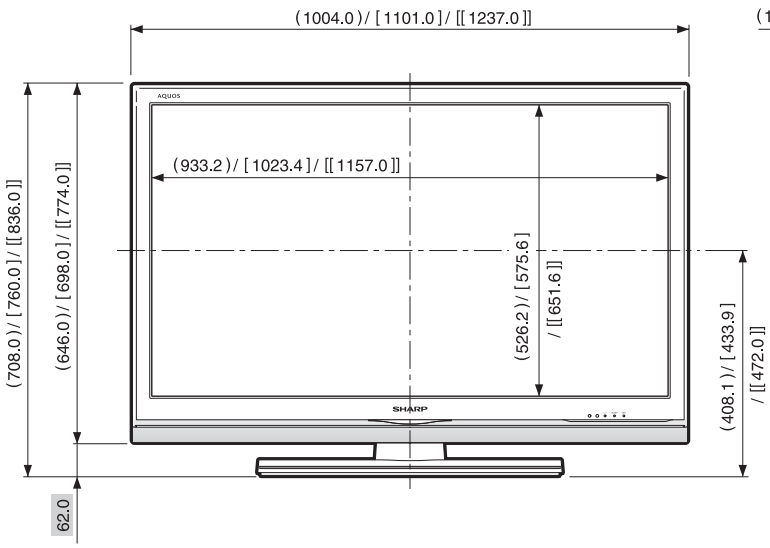


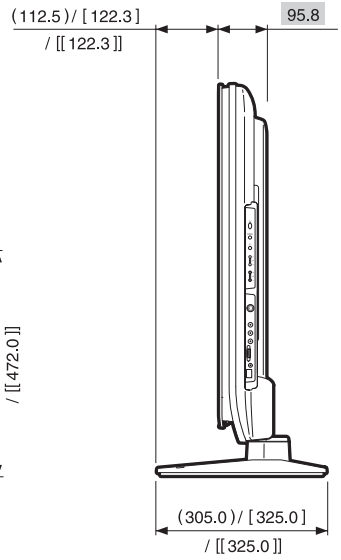
( ) : LC-42XL2E/LC-42XL2S/LC-42XL2RU

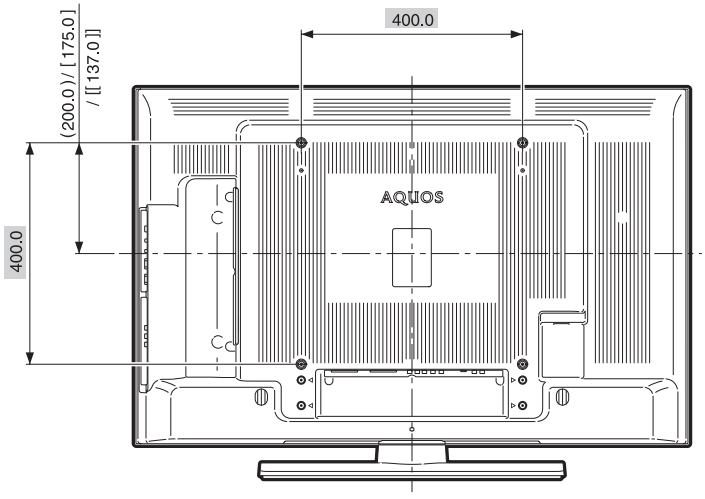
[ ] : LC-46XL2E/LC-46XL2S/LC-46XL2RU

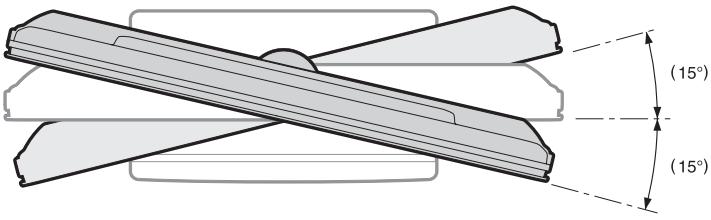
[[ ]] : LC-52XL2E/LC-52XL2S/LC-52XL2RU

: LC-42XL2E/LC-42XL2S/LC-42XL2RU
LC-46XL2E/LC-46XL2S/LC-46XL2RU
LC-52XL2E/LC-52XL2S/LC-52XL2RU









:LC-42XL2E/LC-42XL2S/LC-42XL2RU

[6] DIMENSIONS (LC-46/52X20E/S/RU)

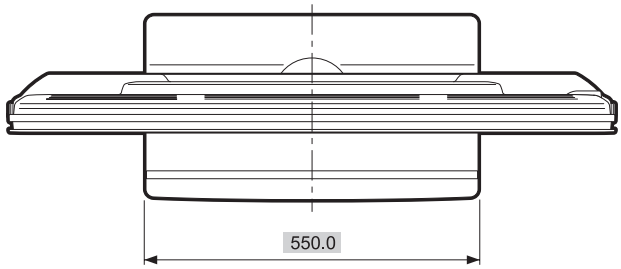
Unit: mm

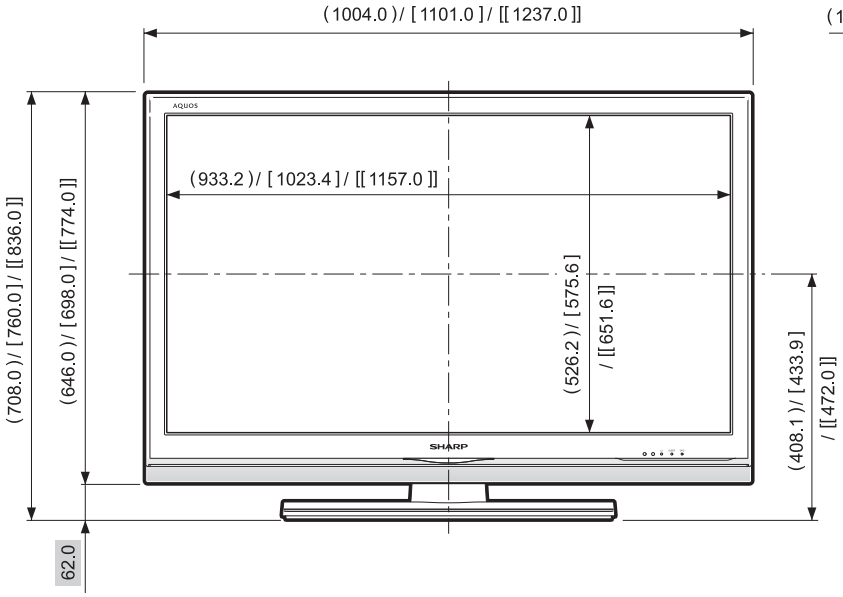
( ) : LC-42X20E/LC-42X20S

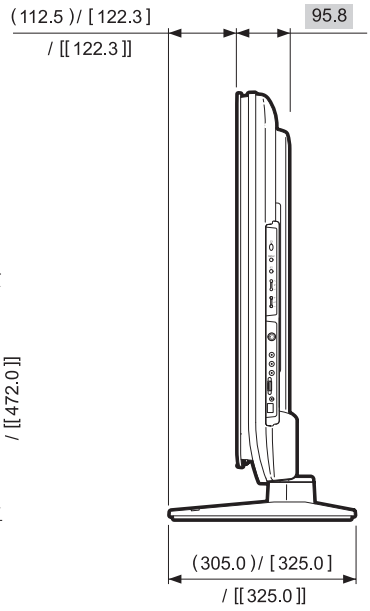
[ ] : LC-46X20E/LC-46X20S

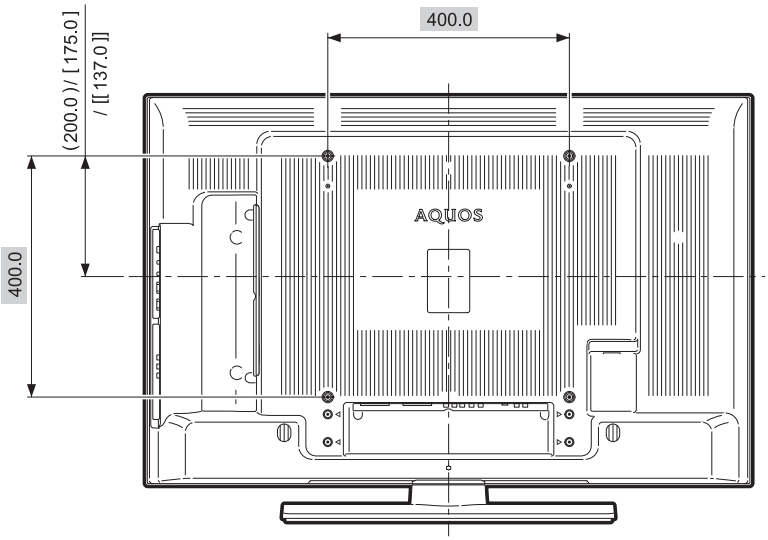
[[ ]] : LC-52X20E/LC-52X20S

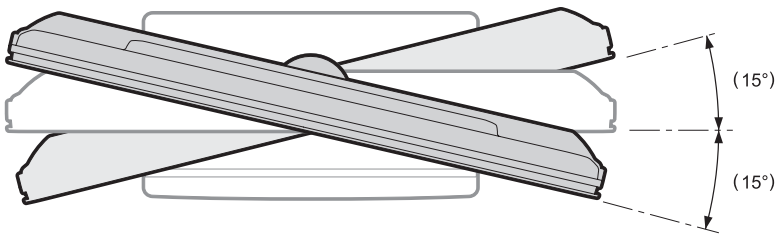
: LC-42X20E/LC-42X20S
LC-46X20E/LC-46X20S
LC-52X20E/LC-52X20S











:LC-42X20E/LC-42X20S